
Leveraged Financing

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Four Applications of Valuation

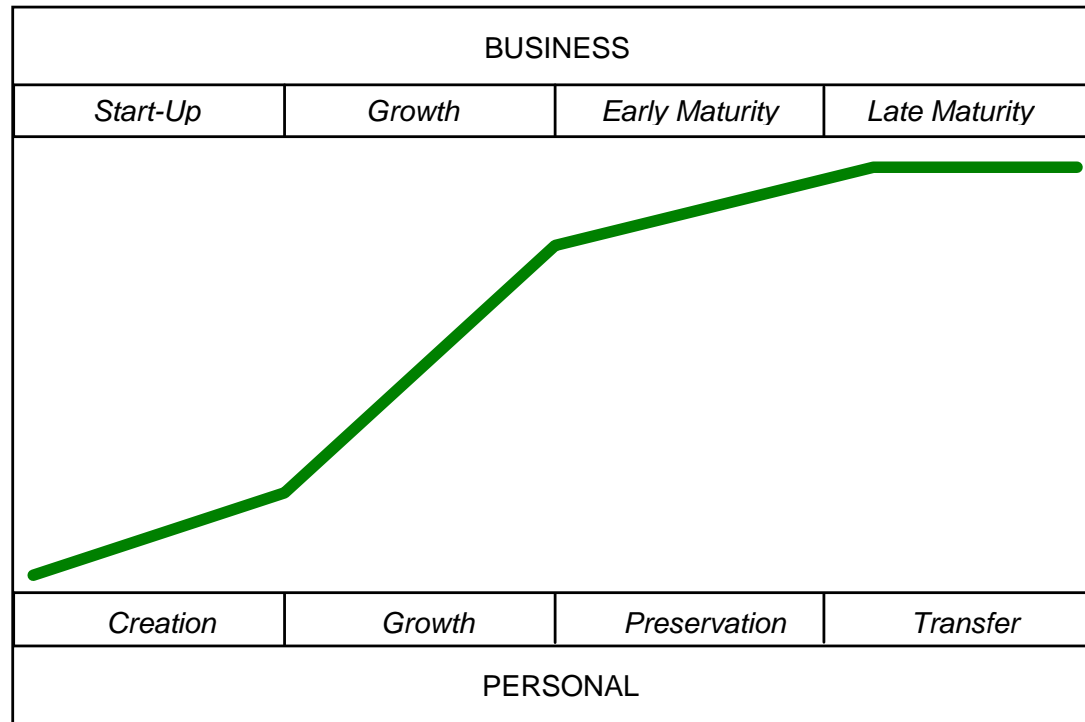
- ❖ Business restructuring: breakup value of public companies
- ❖ Financial restructuring: before and after
- ❖ Mergers and acquisitions
- ❖ Valuing a private company

What Does Value Mean? Public vs. Private

- ❖ Public Company Valuation
 - ❑ maximum share price
- ❖ Private Company Valuation
 - ❑ maximize after-tax personal income
 - ❑ build personal wealth
 - ❑ protect wealth from taxes

“Enhance Shareholder Value?”

Depends on Corporate Life Cycle



Managing Value

- ❖ Maximize corporate expenses
- ❖ Shift income to low-tax bracket family
 - ❑ tradeoff payroll taxes if employed
 - ❑ better to make family S-corp holders or limited partners
- ❖ Own assets privately, lease to company
- ❖ Lever company to finance new investments
- ❖ Multiple corporations:
 - ❑ distribute income and value
 - ❑ lower tax bracket

Uses of Private Company Valuation

- ❖ Estate planning
- ❖ Merger & acquisition
- ❖ IPO
- ❖ ESOP
- ❖ Phantom stock options
- ❖ Stock repurchase (buy/sell agreements)
 - ❑ First right of refusal
 - ❑ Shareholder disputes
- ❖ Private equity investments

Private Valuation Concepts

- ❖ Corporate value
 - Value of company if acquired whole
- ❖ Controlling interest premium
- ❖ Marketability (illiquidity) discount
- ❖ Minority interest discount
 - “Swing vote”: a minority share that effectively controls the company

Private Companies: Typical Valuation Methods

- ❖ Book value
- ❖ Market comparables
 - earnings multiples
 - **weighted averages of recent earnings**
 - **earnings adjusted for recurring operations**
 - **earnings normalized for related party transactions**
- ❖ Prices of prior arm's-length stock sales
- ❖ Discounted cash flow/VC method/LBO

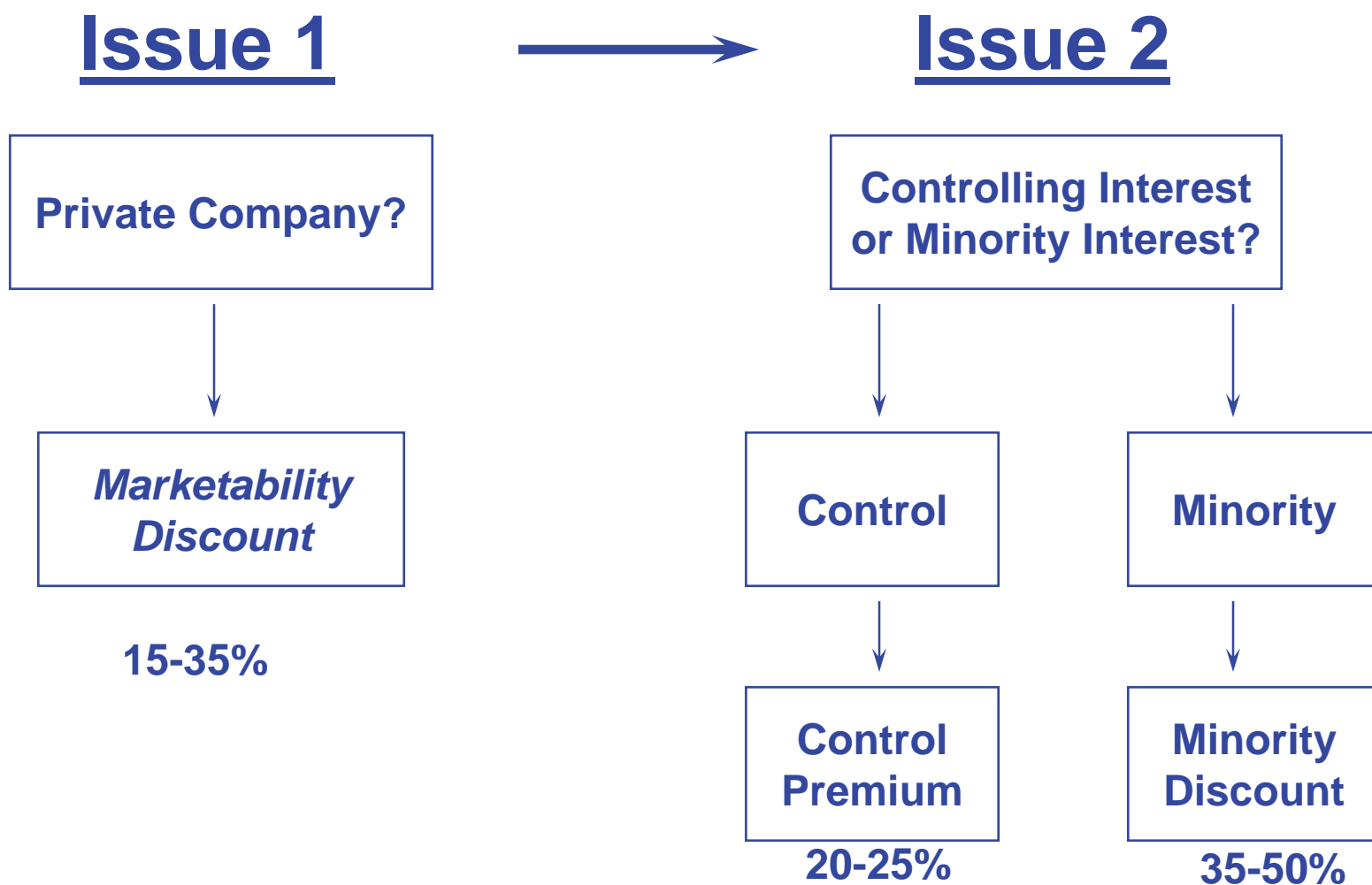
Marketability Discounts

- ❖ No market for shares versus public company
- ❖ Lacks liquidity unless:
 - ❑ do an IPO
 - ❑ sell or merge the business
 - ❑ sell shares to company or other shareholders
- ❖ Flotation costs must be incurred to sell
- ❖ Typical range: 15-35%

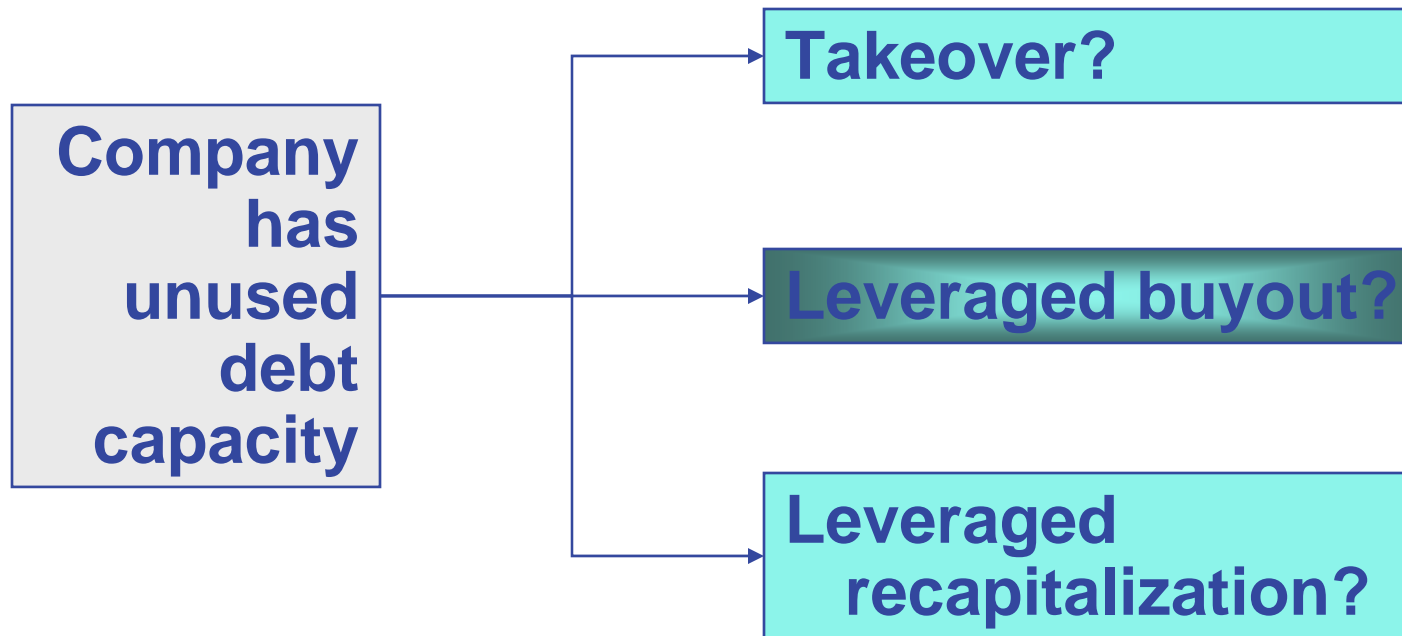
Minority Interest Discounts

- ❖ Cannot influence dividends
 - ❑ insecure income stream
- ❖ Shareholders have no control
 - ❑ can be squeezed-out
 - ❑ no influence on Board of Directors
- ❖ Typical discount range: 35-50%
 - ❑ degree of discount affected by buy/sell agreements, preemptive rights, appraisal rights, employment agreements, etc
 - ❑ as specified in shareholders' agreement

Relationships Between Discounts



M&A and Leverage



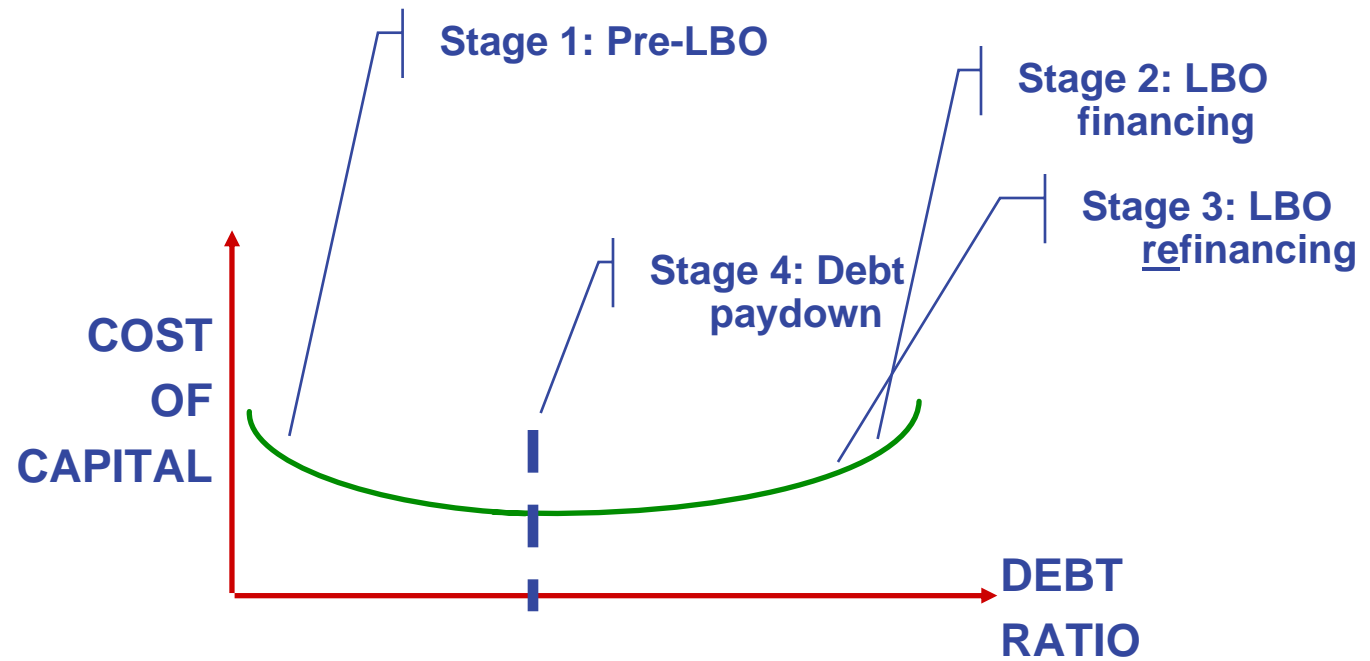
Private Pitfalls

- ❖ Methods: same
- ❖ Problems:
- ❖ No market price
- ❖ No history of reported information
- ❖ Data provided can be distorted

Private Pitfalls

- ❖ Revenue overstated?
- ❖ Costs understated? Overstated?
- ❖ New costs that will be incurred?
- ❖ Intangible value?

LBO: A Temporary Capital Structure



12-Step Method

- ❖ Evaluating cost of deal
- ❖ Estimating borrowing capacity
- ❖ Estimating cash costs of funding
- ❖ Estimating growth rates of sales, expenses, etc
- ❖ Projecting cash flows (FCFF and FCFE)
- ❖ Projecting debt amortization
- ❖ Calculating terminal value of FCFE and FCFF
- ❖ Estimating costs of capital to find PV
- ❖ Making sense of the deal

Cost of the Deal

Estimating cost of deal			
Shares			10
Price			\$ 45
Premium			15%
Equity cost			\$ 518
Debt cost			\$ 55
Fees		5%	\$ 29
Capex & restructuring		10%	\$ 57
Total cost of deal			\$ 658

Borrowing Capacity

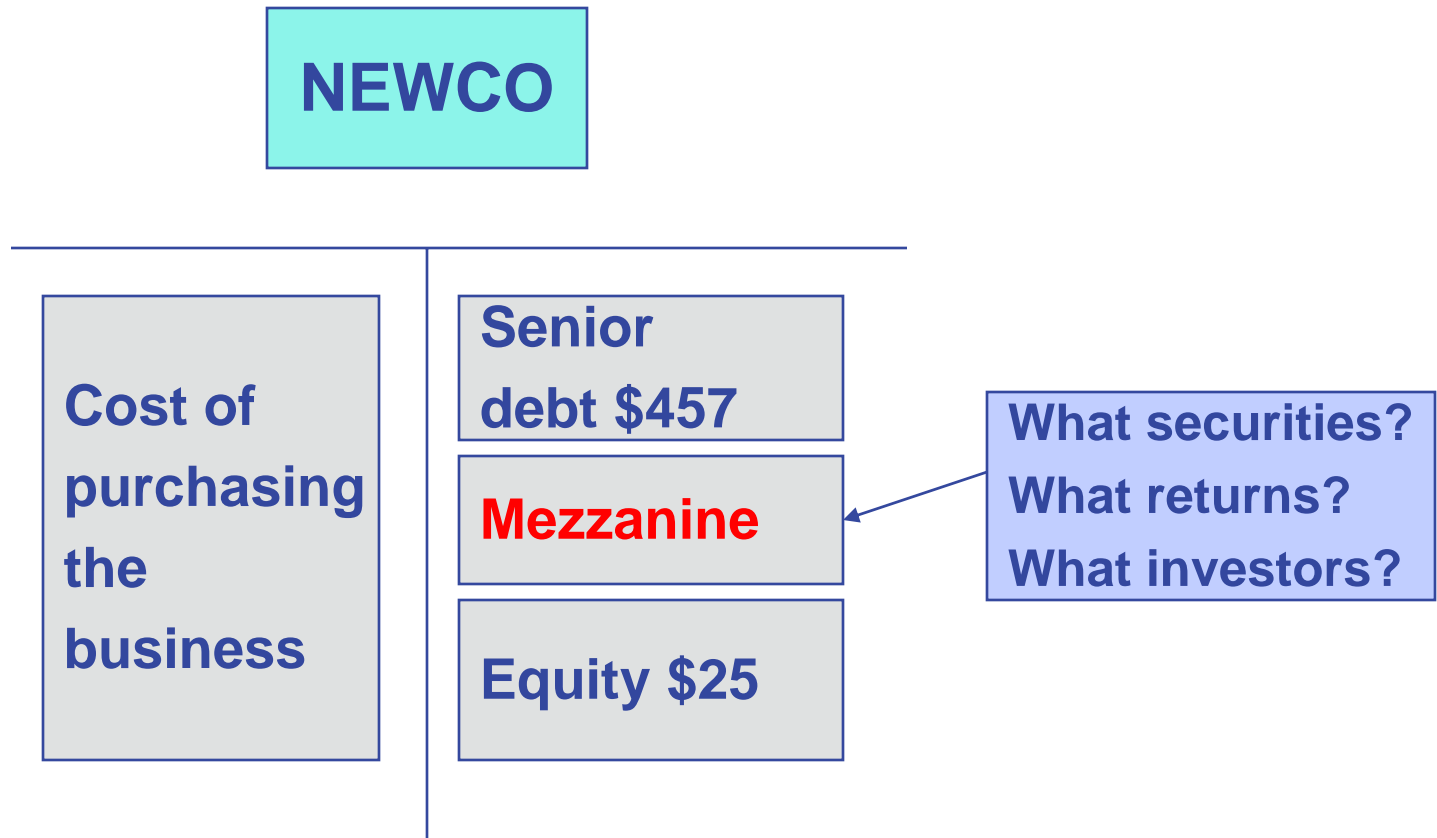
Estimating borrowing capacity			
Given:			
EBIT			\$ 95
Min EBIT int coverage ratio			1.3
Interest capacity			\$ 73
Interest rate			16.00%
Debt capacity			\$ 457

From table

Capital Structure

Preliminary capital structure			
Debt			\$ 457
Missing			\$ 177
Mgt equity			\$ 25
Total financing			\$ 658

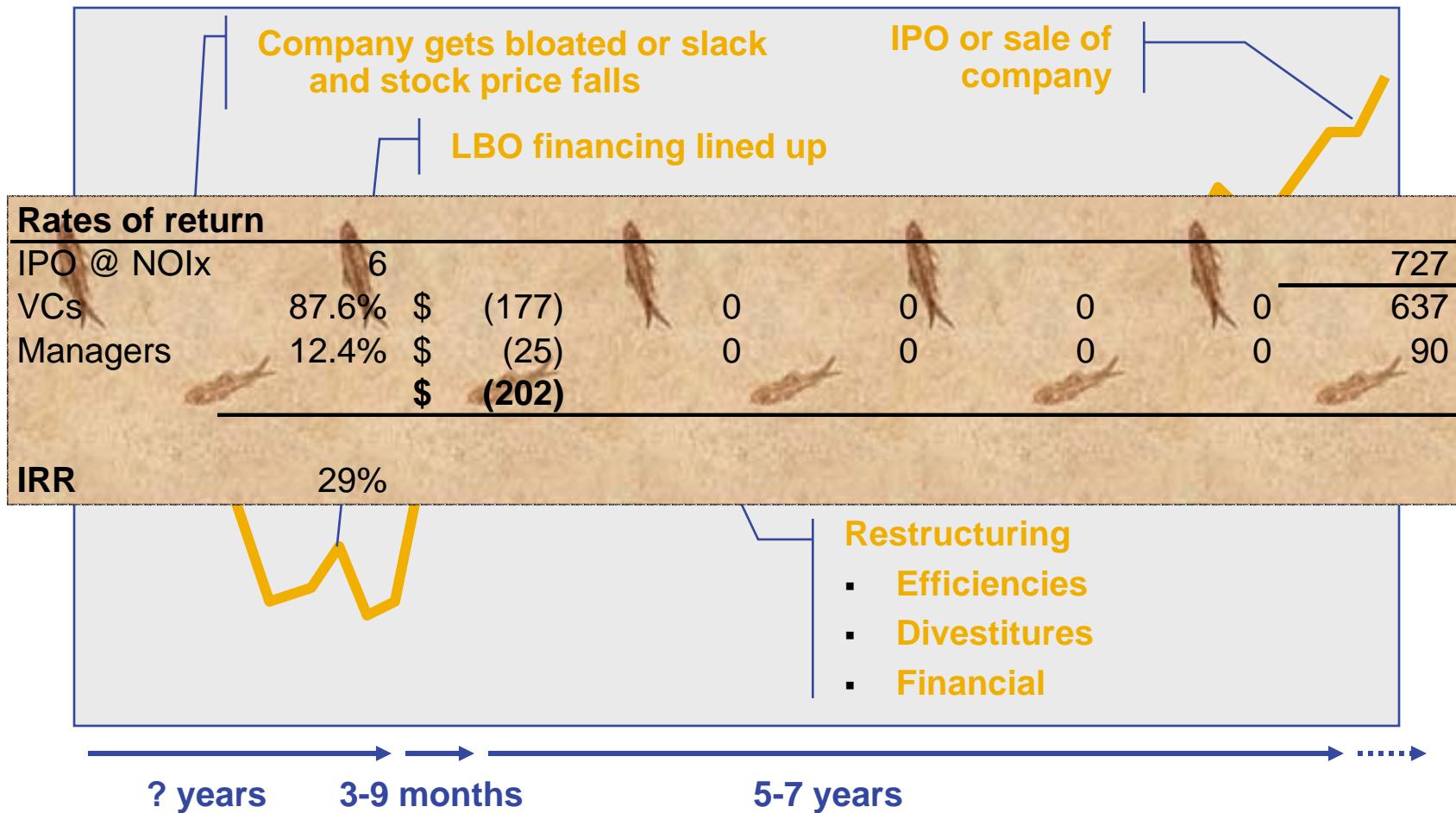
LBO Financing



Cash Flows and Debt Repayment

Cash Flows and debt repayment			1	2	3	4	5
NOI	95	5%	\$ 99.75	105	110	115	121
Principal		\$ 457					
Interest	16%		73	55	51	46	40
Tax	35%		9	17	21	24	28
Add depr of	57		11.4	11.4	11.4	11.4	11.4
Less capex	10%		\$ 10.0	\$ 10.5	\$ 11.0	\$ 11.5	\$ 12.1
Cash avail to repay debt			19	33	39	45	52
Remaining debt			438	405	366	321	269

Exit



Case Study

Photronics



Flexics

Flexics

- ❖ Using what you have learned about M&A valuation, private company valuation and leverage capacity, estimate a range of values for the company
- ❖ What should Flexics' owners do?
- ❖ What should the LBO team offer?
- ❖ What should Photronics offer?